

I claim:

1. An arrangement comprising:
a liquid crystal display having a length, a width and a thickness;
an integrally formed housing comprising a display receptacle, the display receptacle including retention members operable to retain the liquid crystal display in length, width and thickness dimensions; and
a flexible conductor device operably connected between the liquid crystal display and a circuit board.
2. The arrangement of claim 1 wherein the integrally formed housing includes a rib extending across at least a portion the display receptacle, the rib configured to retain the flexible conductor device in a predetermined position within the receptacle.
3. The arrangement of claim 2 wherein the integrally formed housing includes one or more side walls and an end wall forming a meter circuit housing, the display receptacle disposed within the meter circuit housing
4. The arrangement of claim 1 wherein the integrally formed housing includes one or more side walls and an end wall forming a meter circuit housing, the display receptacle disposed within the meter circuit housing
5. The arrangement of claim 4 wherein the one or more side walls comprises a

cylindrical side wall.

6. The arrangement of claim 4 wherein the meter circuit housing further comprises snap features for receiving corresponding snap features secured to the circuit board.
7. The arrangement of claim 1 wherein the display receptacle includes four side walls and end retaining flanges extending perpendicularly from the four side walls, at least one of the four side walls including at least one detent for retaining the liquid crystal display in the thickness dimension.
8. The arrangement of claim 2 wherein the rib extends substantially through a length of the display receptacle.
9. The arrangement of claim 2 wherein the rib has a length and a substantially identical cross section throughout its length.
10. The arrangement of claim 2 wherein the rib includes a portion having an L-shaped cross section.
11. A method comprising:
 - a) disposing a first edge of a liquid crystal display within a display receptacle and under a rib extending at least a portion of a length of receptacle; and
 - b) rotating a second edge of the liquid crystal display within the display

receptacle while the first edge is disposed under the rib.

12. The method of claim 11 wherein step b) further comprises rotating the second edge of the liquid crystal display past a retention feature formed in a wall of the display receptacle.

13. The method of claim 11 wherein step b) further comprises rotating the second edge of the liquid crystal display past a detent formed in a wall of the display receptacle.

14. The method of claim 11 further comprising:

c) inserting a flexible conductor element between the rib and a wall of the display receptacle, the flexible conductor element in electrical contact with the liquid crystal display.

15. The method of claim 14 further comprising:

d) supporting a circuit board in a fixed position with respect to the display housing, at least a portion of the circuit board in electrical contact with the flexible conductor element.

16. The method of claim 13 further comprising:

c) inserting a flexible conductor element between the rib and a second wall of the display receptacle.

Gasketless Seal Claims

17. A meter housing structure comprising:
- a base plate supporting one or more meter blades;
 - a cover having an open end and a closed end, the open end including a periphery having a shoulder;
 - a first housing supporting a display element, the first housing having a periphery having an outward extending shoulder, the first housing also including at least one flexible extension extending at an angle from the first housing outward extending shoulder; and
- wherein the cover shoulder engages the first housing outward extending shoulder so as to urge the flexible extension toward and against the base plate.
18. The meter housing structure of claim 17 wherein the flexible extension extends at a non-perpendicular angle from the first housing outward extending shoulder.
19. The meter housing structure of claim 17 wherein the flexible extension is coextensive with the first housing periphery.
20. The meter housing structure of claim 17 wherein the cover periphery is substantially circular and the first housing periphery is substantially circular.
21. The meter housing structure of claim 17 wherein the flexible extension forms a

gasketless seal.

22. A method comprising:

disposing a first housing on a base plate supporting one or more meter blades, the first housing supporting a display element, the first housing having a periphery having an outward extending shoulder, the first housing also including at least one flexible extension extending at an angle from the first housing outward extending shoulder;

disposing a cover on the outward extending shoulder; and

urging the flexible extension toward and against the base plate to form a seal.